

Work Order ID 129193***129193***

Page 1

Friday, January 30, 2015 11:01:56 AM

Item ID: D4634-041 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Fwd, Center Ceiling Panel Assembly
Start Date: 1/30/2015 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 1/30/2015 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: MCS Date: 1501-30 Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr								
D4634	F <i>OK</i>								

100

0.00

100

HandThermo

Memo

0.00

Hand Finishing Thermoforming

Pick Kit

BAS

27

9-89

NOV 23 2015

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear	General		
☐ Bending	☐ Bend	☐ Folio/Program	☐ Outside Dimensions
☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance
☐ Cracks	☐ Broken/Damage/Defect	☐ Hardware	☐ Part Incorrect
☐ Crimp/Kink/Ripple/Wave	☐ Burrs	☐ Inspection Incomplete/Unqualified	☐ Part Lost/Missing
☐ Cuffs	☐ Contamination	☐ Instructions Incomplete/Unclear	☐ Part Moved
☐ Crushing	☐ Countersink	☐ Misaligned/off center	☐ Positioned Wrong
☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Power Loss/Surge
☐ Inspection Strip in Tube	☐ Drawing	☐ Misread	☐ Pressure/Forced
☐ Marks/Chatter	☐ Drill Holes	☐ Off-set	☐ Set-up
☐ Turning Sequence	☐ Finish	☐ Out of Calibration	☐ Temperature/Cure
☐ Wave/Twist in Tube	☐ Fit/Function	☐ Out of Sequence	☐ Weld
			☐ Wrong Stock Pulled
			☐ Other

Work Order ID 129193

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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
110		0.00							
110						DAS 27			
Small Fab	Memo	0.00				9-89			
Small Fab	***BEFORE INTALLING D4728-051, APPLY A 3/16" SEEM OF PLASTIC- WELD 2 ON TOTAL LENGHT OF PART ON EANCH SIDE OF LIGHT, LET DRY FOR ONE HOUR*** PLASTIC-WELD 2 BATCH : <u>130570</u>								
	1- Assemble as per Dwg D4634-041								
	2- install No Smoking & seat belt symbols								
	3- Install led lights								
	4- Install Air valves								
	5-Install Wiring Harness								
	5-Install wiring harness								
120	QC5- Inspect part completeness to step on W/O	0.00							
120									
QC	Memo	0.00							
Quality Control									

NOV 23 2015

DAS
38
9-89

NOV 23 2015

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WORK ORDER NON-CONFORMANCE / UPDATE

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Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Identify as per dwg & Stock Location: _____	0.00							
130									
Packaging	Memo	0.00							
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

SMB
15/12/15

ML5 DEC 15 2015

ML5 DEC 15 2015

DQA: _____ Date: _____



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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
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Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

Friday, January 30, 2015 11:01:59 AM

Page 1.

Work Order ID: 129193

129193

Parent Item: D4634-041

D4634-041

Parent Item Name: Fwd, Center Ceiling Panel Assembly

Start Date: 1/30/2015

Required Date: 1/30/2015

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev. A 12/08/09 New Issue DL
 12/11/08 Document release DL VERIFIED BY:JLM IPP Rev C 13/07/09
 Dwg Update DL verf: DD IPP Rev D Dwg Update 13/12/23
 DL IPP REV E Dwg update 14/01/20

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4743-1 Speaker Grill		Manufactured	No			100	Each	14.0000	2	2			
D4743-1													
**													
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				MF		14							
					124115	4							
					126170	10							
MS21044-N08 Nut		Purchased	No			100	Each	27.0000	8	8			
MS21044-N08													
**													
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				MF4		9							
					m130297	9							
				ST303		18							
					m127813	18							
MS24693-BB50 SCREW		Purchased	No			100	Each	176.0000	8	8			
MS24693-BB50													
**													
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				MF		76							
					m130207	76							
				ST292		100							
					m130207	100							

BB 15/04/28

BB 15/04/28

BB 15/04/28

DQA: _____ Date: _____



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Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

Friday, January 30, 2015 11:01:59 AM

Work Order ID: 129193

129193

Parent Item: D4634-041

D4634-041

Parent Item Name: Fwd, Center Ceiling Panel Assembly

Start Date: 1/30/2015

Required Date: 1/30/2015

Start Qty: 1.00

Required Qty: 1.00

NAS1149DN832J

Purchased

No

100

Each

1,026.000

8

8

NAS1149DN832J

Washer

**

8

15/04/28

Location

Loc Qty

Loc Code

CA	84
M129499	84
MF4	185
M129541	185
ST270	757
124555	59
M128429	98
M131317	600

D4634-141

Manufactured

No

100

Each

0.0000

1

1

D4634-141

Fwd, Center Ceiling Replacement Panel Assembly

M129209

**

1

5mB/11/23

D4646-1

Manufactured

No

100

Each

164.0000

2

2

D4646-1

Plenum Cap Assembly

**

2

15/04/28

Location

Loc Qty

Loc Code

MF3	164
124234	107
125003	57

D4652-1

Manufactured

No

100

Each

163.0000

2

2

D4652-1

Air Valve, 1.16 Id Disk Type

**

2

15/04/28

Location

Loc Qty

Loc Code

MF	163
112003	19
122691	144

DQA: _____ Date: _____



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Process ☐									
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Training ☐									
Transport ☐									
Unapproved ☐									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge	☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

Friday, January 30, 2015 11:02:02 AM

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129193

Parent Item: D4634-041

D4634-041

Parent Item Name: Fwd, Center Ceiling Panel Assembly

Start Date: 1/30/2015

Required Date: 1/30/2015

Start Qty: 1.00

Required Qty: 1.00

D4728-047	Manufactured	No	100	Each	26.0000	1	1	
D4728-047								
Advisory Light, Fwd								

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
MF5	26	
117929	9	
124732	17	

D4728-051	Manufactured	No	100	Each	22.0000	1	1	
D4728-051								
Cabin Lights #1								

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
MF	22	
117932	4	
122713	18	

PLT1.5M-M	Purchased	No	100	Each	2,950.000	8	8	
PI T1 5M-M								
Tie Wrap								

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
MF	2950	
m129712	2950	

50-009-2	Purchased	No	100	Each	81.0000	1	1	
50-009-2								
Grommet								

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
MF4	77	
m128047	77	
ST562	4	
m128047	4	

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Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

Friday, January 30, 2015 11:02:03 AM

Page 4

Work Order ID: 129193

129193

Parent Item: D4634-041

D4634-041

Parent Item Name: Fwd, Center Ceiling Panel Assembly

Start Date: 1/30/2015

Required Date: 1/30/2015

Start Qty: 1.00

Required Qty: 1.00

2351-20-27-C3C

2351-20-27-
Z3CT

Purchased

No

100

Each

125.0000

1

1

2351-20-27-C3C

STUD

(1)

JB

15/04/20

Location

Loc Qty

Loc Code

MF5

98

m130318

98

ST569

27

m128068

27

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

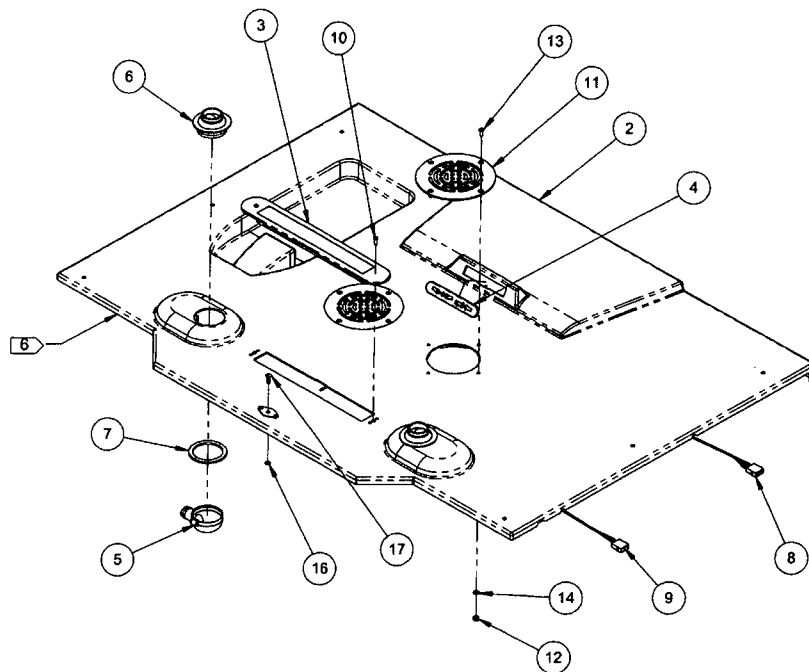
Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
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Doc/Data									
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Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge	☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
--	--	---	--	--



ITEM NO.	QTY. -041	PART NUMBER	DESCRIPTION
1	X	D4634-041	FWD, CENTER CEILING PANEL ASSY
2	1	D4634-141	FWD, CENTER CEILING REPLACEMENT PANEL ASSY
3	1	D4638-1 (REF)	LED LIGHT (REF PART OF D4728-051)
4	1	D4645-1 (REF)	NO SMOKING & FASTEN BELT LIGHT (PART OF D4728-047)
5	2	D4646-1	PLENUM CAP ASSEMBLY
6	2	D4652-1	AIR VALVE
7	2	D4652-3 (REF)	MOUNTING NUT (PART OF D4652-1)
8	1	D4728-047	ADVISORY LIGHT (FWD) HARNESS ASSEMBLY
9	1	D4728-051	CABIN LIGHT #1 HARNESS ASSEMBLY
10	2	N/A (REF)	SCREW (PART OF D4728-051)
11	2	D4743-1	SPEAKER GRILL
12	8	MS21044-N08	NUT
13	8	MS24693-BB50	SCREW
14	8	NAS1149DN832J	WASHER
15	8	PLT1.5M-M	TIE-WRAP (OR PLT1.5M-C)
16	1	50-009-2	GROMMET
17	1	2351-20-27-C3C	STUD

RELEASED

2014 FEB 25

ECN 14-519

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 129193 MWS

1501-30

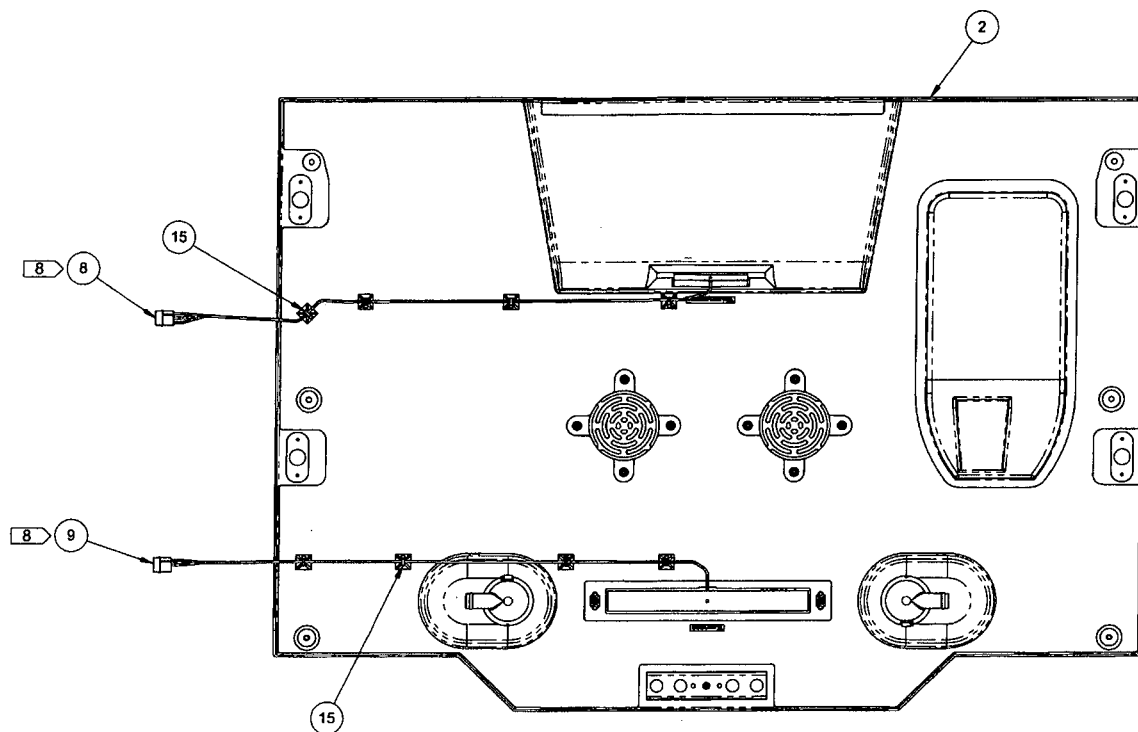
D4634-041 FWD, CENTER CEILING PANEL ASSY

F	REVISE BOM (ZN D4-7); ADD DIM (ZN B8-9); 10.20 WAS 10.05 (ZN B6-10, B5-12, B5-14); ADD DETAIL V (ZN C4-10, B4-12, C4-14, A4-16); CHANGE PROTRUDE SECTION DIMS TO REF (ZN C7-10, C7-12, C7-14)	RF	14.02.03
E	REVISED BOM (ZN C4-1, C4-3, D4-5, C4-7, C4-8, C4-9); ADDED NOTE 11) (ZN D5-7, A5-7, D5-8, A5-8, D7-9, A6-9); 3.70 WAS 3.83 (ZN C6-11); 1.88 WAS 2.00 (ZN D7-13); 6.13 WAS 6.25 (ZN B6-15); REVISE DETAIL B (ZN A8-16)	RF	14.01.09
D	ADDED PLT1.5M-M (ZN C4-5, C6-6); D5021-1 (ZN D4-7, D5-7); D5021-3 (ZN D4-9, D5-8); D5021-5 (ZN D4-9, B7-9); MPNY-750S-9-C (ZN D4-9, B7-9); Ø0.129 (ZN B4-11, B4-13); DETAIL "U" (ZN C2-17); 3.83 WAS 3.87 (ZN C6-11); 2.00 WAS 2.02 (ZN D8-13); REVISE NOTE 8) & 10) (ZN A8-7, A8-8, A9-9); & NOTE 1) (ZN A8-10, A8-12, A8-14); 3.80 WAS 3.84 (ZN D4-17, B8-17); REMOVED D4694-7-041/043/045/047; D4647-3-7-8; DIMENSION SHIFTED DUE ADDING D5021-1/-3/-5; Ø0.250 WAS Ø0.206 (ZN D6-11, C3-13 & D6-15)	RF	13.12.09
C	REVISE GENERAL NOTES (ZN A8-7, A8-8, A8-9) & BOM (ZN D4-1, D4-3, D4-5, D4-7, D4-8); Ø0.206 WAS Ø0.207 (ZN D6-11, C3-13, C6-15) ADD DIM. (ZN B6-7, B7-7, D7-8, & D8-8)	RF	13.06.18
B	ADDED D4634-141/143/145 (ZN B4-7, B4-8, B4-9); REVISE D4634-041/042/043/044 PART LIST & GENERAL NOTES; ADD DETAILS R,S,T SHT 10, 12, 14, 16, 17	RF	12.11.30
A	NEW ISSUE	RF	12.07.25
REV.	DESCRIPTION	BY	DATE

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	PC	DRAWING NO.	REV. F
MFG. APPR.	PC	D4634	SHEET 1 OF 17
APPROVED	PC	TITLE	SCALE
DE APPR.	PC	CENTER CEILING PANELS	NTS
DATE	14.02.03	COPYRIGHT © 2012 BY DART AEROSPACE LTD. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.4, ON SMOOTH SIDE
- 7) WEIGHT: 7.0 lbs
- 8) INSTALL D4728-047/051 WIRE HARNESS PER QSI 048



D4634-041 FWD. CENTER CEILING PANEL ASSY
AUXILIARY VIEW

RELEASED

2014 FEB 25 *qp*

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	<i>BC</i>	DRAWING NO.	REV. F
MFG. APPR.	<i>BC</i>	D4634	SHEET 2 OF 17
APPROVED	<i>BC</i>	TITLE	SCALE
DE APPR.	<i>BC</i>	CENTER CEILING PANELS	NTS
DATE	14.02.03	COPYRIGHT © 2012 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

Daryl Leger

From: David Shepherd
Sent: Thursday, May 14, 2015 12:35 PM
To: Nigel Forbes; Bill Beckett
Cc: Roberto Fuentes; Linda Lacelle; Mario Poulin; Daryl Leger; Harvey Siemens
Subject: RE: 139 Ceilings Deviation

Nigel,

Thanks for the clarification. I have a much better understanding of what happened here. My assumption had been that we were holding off ordering parts until the newer, cheaper parts were approved so that we could reduce our costs. There is certainly no Engineering objection to using the existing stock.

On the lights, the part number did not change (still D4638-1) even though the supplier did, so this is not a deviation. Both the Bruce p/n and Emteq p/n are acceptable.

On the vents, the part number changed from D4652-1 to D4652-5 because the appearance of the part was quite different, so all drawings now call up D4652-5. Suggest we get Roberto to issue a DEO that allows the D4652-1 to be used in place of D4652-5 until stock is depleted.

In both cases, we should set aside a portion of the old stock to support customers who already have the kits. Maybe 10 of the lights and 30 of the vents, or something like that.

Regards,
David

From: Nigel Forbes
Sent: May-14-15 8:31 AM
To: David Shepherd; Bill Beckett
Cc: Roberto Fuentes; Linda Lacelle; Mario Poulin; Daryl Leger; Harvey Siemens
Subject: RE: 139 Ceilings Deviation

David,
Apologies for the delay in replying. After reviewing the history on these items, here's the background:

- The lights, long lead time (90+ days) and minimum quantities to get them at \$765 a piece. Plus, these had to be shipped to Mr. Rowe to incorporate in the harnesses and that added to the lead time. So again, we placed blanket P.O based on forecast and we ended up with the these quantities and we can't return them. See below.

From: Shonda Wallace/ATL/Satair <sow@satair.com>
Date: May 14, 2015 at 10:09:59 AM EDT
To: Linda Lacelle <llacelle@dartaero.com>
Subject: RE: BR9741-401-001

Linda,

Unfortunately we do not buy parts back.

Best regards,

Shonda Wallace
Customer Order Specialist

Tel: +1 404 675 6328

Fax: +1 404 675 6311
Mail to: sow@satair.com

Satair USA Inc
3993 Tradeport Boulevard · Atlanta, GA 30354
USA
Tel: +1 404 675 6333 · Fax: +1 404 675 6311
AOG (Outside business hours): +1 404 310 1966

- The plated gaspers/air vents were problematic and the lead time was long and unpredictable due to the plating rejections. So we mitigated the risk of delivery delays to our key customers by ordering them on a blanket P.O with staggered deliveries. In doing so, based on forecasted sales and the pending approval to switch to the new air vents, we ordered extra quantities to avoid shortages. These were and are customized items due to the plating selection and are non-returnable or exchangeable. In the timing of it all with the engineering change to the new vents and the low sales on the ceiling kits, we ended up with this stock. See below:

From: <cbirk@birkaero.net>
Date: May 11, 2015 at 10:30:06 PM GMT-4
To: 'Linda Lacelle' <llacelle@dartaero.com>
Subject: RE: D4652-1 air valves

Dear Linda,

We cannot accept the plating back as they are customer specific and there is no one else that is utilizing this part in plating. We understand that there were some lateness to parts but that was due to plating reworks which are out of our control. Please let us know if you have any other questions or concerns.

Best Regards,
Connie Birk
Birk Aerosystems Corporation
Phone: 714-554-9782
Fax: 714-554-3659
Email: cbirk@birkaero.net

From: Linda Lacelle [<mailto:llacelle@dartaero.com>]
Sent: Monday, May 11, 2015 11:35 AM
To: cbirk@birkaero.net
Subject: D4652-1 air valves

Good Afternoon Connie,
We are ready to proceed with the new air valves, D4652-5, however, we still have a lot of stock of the D4652-1's, due to the lateness of all the orders last year. Is there anything you can do to issue us an RMA for the current stock of the D4652-1's?
Please get back to me at your earliest convenience.

Thank You,

Linda Lacelle
Manager Purchasing and ERP

From: David Shepherd
Sent: May-11-15 12:58 PM
To: Nigel Forbes; Bill Beckett
Cc: Roberto Fuentes; Linda Lacelle; Mario Poulin; Daryl Leger; Harvey Siemens
Subject: RE: 139 Ceilings Deviation

Nigel/Bill,

Can you clarify what is going on here. About 6 months ago, Operations pushed Engineering to change the lights and air vents for the AW139 ceilings because the previous lights and air vents were waaaaaaay too expensive. Now we have 3 years supply of the old expensive parts. I'm confused.

Regards,
David

From: Mario Poulin
Sent: May-11-15 10:53 AM
To: Daryl Leger; Harvey Siemens
Cc: Roberto Fuentes; David Shepherd; Linda Lacelle
Subject: RE: 139 Ceilings Deviation

No orders pending,

From: Daryl Leger
Sent: Monday, May 11, 2015 12:49 PM
To: Mario Poulin; Harvey Siemens
Cc: Roberto Fuentes; David Shepherd; Linda Lacelle
Subject: RE: 139 Ceilings Deviation

Harvey

Re: 139 Ceilings

We have	old stock quantities of	D4652-1 air Valve	QTY 163. (enough old stock for 13 sets)	New Stock Qty. 0
	Old stock quantity of	D4638-1 light	QTY 73. (enough old stock for 24 sets)	New Stock
	Qty. 0			

We do not have any orders on hand for ceilings and I have no idea if there are any pending orders.
Please advise

Daryl

From: Mario Poulin
Sent: Monday, May 11, 2015 10:45 AM
To: Harvey Siemens; Daryl Leger
Cc: Roberto Fuentes; David Shepherd; Linda Lacelle
Subject: RE: 139 Ceilings Deviation

Harvey,

We have stock for about 3 years, Ok to keep some old ones in case, but we should be reducing inventory first.

Mario,

From: Harvey Siemens
Sent: Monday, May 11, 2015 10:18 AM
To: Daryl Leger
Cc: Roberto Fuentes; Mario Poulin; David Shepherd
Subject: RE: 139 Ceilings Deviation

Daryl,

I thought we were going to move to the new parts and not use up all the old stock in case somebody wanted/needed replacement parts.

Just a little curious, why we are going backwards??

HS

From: Daryl Leger
Sent: May-11-15 5:56 AM
To: Harvey Siemens
Cc: Roberto Fuentes; Mario Poulin
Subject: 139 Ceilings Deviation

Harvey

Can you please provide a standard email that we can use to make D4634-xxx panels at Rev. F until old stock parts are used up.

We will also need same type document to produce D4635-xxx panels as per Rev. E until old stock parts are used up.

We will not use unmatched parts (old/new on same set panel) as old stock diminishes.

Daryl

DRAWING NO. D4652	TITLE AIR VALVE	REV. D	DART AEROSPACE LTD ENGINEERING ORDER		D.E.O. NO. D4652-D-1	SHEET NO. SHEET 1 OF 1	SCALE NTS
DRAWN	RF	CHECKED 	MFG. APPR.	TBD	APPROVED 	DE APPR.	
DATE	15.06.03	DATE	15.06.03	DATE	15.06.XX	DATE	15.06.03

PURPOSE:

THIS DEO ALLOWS THE D4652-1 AIR VALVE TO BE USED IN PLACE OF D4652-5 UNTIL STOCK DEPLETED.

NOTE: A COMPLETE D139-816-11 KIT SHOULD HAVE SAME P/N AIR VALVE.